

Figure 1.

CCCCGTCGGAGGTTTCAAGGAATGACTAGATGTGGCACTTAGTGCCATGGTCTAGTTGAC 60  
AAGGTGATGGTTGGTCAAAGTTGGACTCGATGATCTCAGAGTTTTTTTCCAGCCTTAAT 120  
AATTCTATGAATTCTGTAATTTTATTCTTGATCTTTTGGAGCGAAGTTTGTGGGGATT 180  
TTAGTTTGGTTTCCCTGTCACGTGTTTCTTTCCTTGAAACTGACTTTCATTTGCAACATG 240  
AGAATTGCTGTATTTGTCAGGTTACAAGTAGTGCAATGGCTGCTTAGAAGTAGTGAGAAA 300  
CATTTAGGGAAATACTGGAGTGAAGCAAACACAGTGGTACTGCCAAACTGTAGCTTTGGG 360  
ATTTGAGGAGCCACAGAGTTGTATATAAAATTTGTTTAATGATATCCTGCCCCCTGCCTTCC 420  
ATTAATTGCTTGTTTTATGAAACCACTCTTTTTTTTTTTTTTTTTTTTGGCTTCTTCA 480  
TATCCTGTGGTAATGAGTTAATGCATTTAGAAGCACATGGCAGAACTAGGAGATCTGTGG 540  
ATGACAGTGGTACAGGAGCTCTGAATTTTTTAGATAAACTATGAGAGTGGAAACAGAAAT 600  
CTGAGGCTAGTTTCTTGAGCTGACTGTAAATTTTGTGAGAATATTTTCAAGACTACATTA 660  
GTTGTGTGTTTGAGGAAAAATAAAATGTTTAAGTTGTCCATTCCTTGAAACCTCCCGACC 720  
GGG 723

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Figure 2.

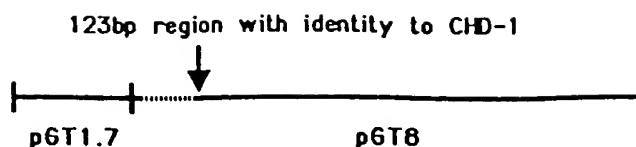


Figure 3.

M	CHD-1	ATTCTTCCAG	ATGATCCTGA	TAAAAAACCA	CAAGCAAAAC	AGTTACAGAC
C	CHD-1A	ATTTTACCTG	ATGATCCAGA	CAAGAAACCC	CAGGCAAAGC	AGCTACAGAC
C	CHD-W	ATTTTACCTG	ATGATCCAGA	TAAGAAACCC	CAGGCTAAGC	AGTTACAGAC
GT	CHD-W	ATTTTACCTG	ATGACCCAGA	TAAGAAACCA	CAGGCAAAGC	AGTTGCAGAC
M	CHD-1	CAAAAAACCA	CAAGCAAAAC	AGTTACAGAC	CCGTGCAGAC	TACCTCATCA
C	CHD-1A	CAAGAAACCC	CAGGCAAAGC	AGCTACAGAC	CCGTGCAGAC	TACCTCATTA
C	CHD-W	CAAGAAACCC	CAGGCTAAGC	AGTTACAGAC	CCGTGCAGAT	TACCTCATTA
GT	CHD-W	CAAGAAACCA	CAGGCAAAGC	AGTTGCAGAC	CCGTGCAGAT	TACCTCATTA
M	CHD-1	AATTACTTAG	CAGAGATCTT	GCAAAAAGAG	AGGCTCAGAG	ACTTTGTGGT GCG
C	CHD-1A	AATTACTGAA	TAAAGACCTT	GCAAGAAAGG	AAGCACAAAG	GCTTGCTGGT GCA
C	CHD-W	AATTACTGAA	TAAAGACCTT	GCAAGAAAGG	AAGCACAGAG	ACTTGCTGGT GCA
GT	CHD-W	AATTACTGAA	TAAAGACCTT	GCAAGAAAGG	AAGTGCAAAG	ACTTACTGGT GCA
M	CHD-1	ILPDDPDKKPQAKQLQTRADYLIKLLSRDLAKREAQRLCGA				
C	CHD-1A	ILPDDPDKKPQAKQLQTRADYLIKLLNKDLARKEAQRLAGA				
C	CHD-W	ILPDDPDKKPQAKQLQTRADYLIKLLNKDLARKEAQRLAGA				
GT	CHD-W	ILPDDPDKKPQAKQLQTRADYLIKLLNKDLARKEVQRLTGA				
		*****				

Figure 4.



Figure 5.

1 CGGGCTGCGG CACGAAGCGC ACCGCCGGCG CACGCAGGCT CGGGCCGGGG  
 51 AAGGCCTGGC CCGCCGAGCC GGACGCACGC AGGTATTTGG GCAAAAATCT  
 101 TGGCCATCTG TAGAGAATAG CAAGTCAAAC GCATTACTTC GAAAAACATAC  
 151 GGAGTACCAG AAAGGGGATT CTTGACCTAC ACCTTGTAAC CTGAGTGGAC  
 201 TTTCTTTTAA ACTTCTTAAT ACTTACAATG AATGGGCACA GTGATGAAGA  
 251 AAGTGTAAGA AACAGCAGTG GAGAGTCAAG CAGATCAGAT GATGATTCTG  
 301 GGTCAGCTTC AGGTTCTGGA TCTGGTTCAA GCTCTGGAAG CAGTAGCGAT  
 351 GGAAGTAGCA GCCAGTCAGG TAGCAGTGAC TCTGAATCTG GTTCAGAGTC  
 401 AGGCAGTCAA TCCGAATCAG AGTCTGACAC ATCTAGAGAG AAGAAACAAG  
 451 TTCAAGCTAA ACCTCCGAAA GCTGACGGAT CTGAGTTTGT GAAGTCCAGT  
 501 CCAAGCATAC TTGCTGTACA GAGATCAGCA GTGCTCAAGA AGCAACAGCA  
 551 ACAGCAAAAA GCAGCATCAT CAGACAGTGG TTCAGAAGAG GACTCATCCA  
 601 GTAGTGAAGA TTCTGCCGAT GATTTCGTCCA GTGAAACTAA GAAGAAAAAG  
 651 CATAAAGATG AAGACTGGCA AATGTCTAGG TCAGGGTCAG TATCAGGAAC  
 701 TGGTTCTGAT TCTGAATCGG CGGAAGATGG GGATAAAAGC AGTTGTGAAG  
 751 AAAGTGAATC TGACTATGAG CCAAAAAACA AAGTCAAAAG CCGTAAACCT  
 801 CCAAGCAGAA TTAAGCCAAA AAGTGGGAAA AAGAGCACAG GACAGAAGAA  
 851 GAGGCAACTT GATTTCATCAG AGGAGGAGGA GGACGATGAT GAAGATTATG  
 901 ATAAGAGAGG ATCTCGTCGC CAGGCAACAG TGAATGTTAG TTACAAAGAA  
 951 GCTGAAGAAA CCAAGACAGA TTCTGATGAT TTGCTGGAAG TTTGTGGAGA  
 1001 GGATGTCCCA CAGACTGAAG AAGATGAATT TGAAACTATA GAGAAGTTTA  
 1051 TGGACAGTCG AATTGGCCGA AAAGGAGCCA CTGGTGCCCTC AACCACCATC  
 1101 TATGCCGTTG AGGCAGATGG TGACCCAAAT GCTGGGTTTG AAAAGTCAAA  
 1151 GGAGCTGGGA GAAATACAGT ATCTTATTAA ATGGAAAGGC TGGTCACACA  
 1201 TCCATAACAC TTGGGAAACT GAAGAAACGC TGAAGCAACA AAATGTTAAA  
 1251 GGAATGAACA AACTGGACAA CTACAAGAAA AAGGATCAGG AGACAAAACG  
 1301 CTGGCTGAAA AATGCTTCTC CAGAAGATGT GGAATATTAT AACTGCCAGC  
 1351 AGGAGCTTAC AGATGATCTG CACAAACAAT ATCAAATAGT GGAAGAATA  
 1401 ATTGCTCATT CAAATCAAAA GTCAGCAGCT GGTATCCGG ACTACTATTG  
 1451 CAAATGGCAG GGTCTGCCTT ACTCAGAATG TAGCTGGGAA GATGGTGCTC  
 1501 TCATTGCCAA AAAGTTTCAG GCACGCATTG ATGAGTATT TAGCAGAAAT  
 1551 CAATCCAAGA CTAATCCCTT TAAGGACTGC AAGGTTCTAA AACAGAGACC  
 1601 AAGATTTGTT GCACTGAAGA AGCAACCATC TTACATTGGA GGACATGAAA  
 1651 GTCTGGAGTT AAGAGATTAT CAGTAAATG GATTGAATTG GCTCGCTCAT  
 1701 TCATGGTGCA AAGGAAATAG TTGTATTCTT GCAGATGAAA TGGGTCTGGG  
 1751 TAAAACAATA CAAACAATTT CTTTCTGAA CTACCTGTTT CATGAACATC  
 1801 AACTGTATGG CCTTTTCTT CTGCGCGTGC CACTTCTAC CTTGACATCT  
 1851 TGGCAAAGAG AGATTCAAAC TTGGGCTCCT CAGATGAATG CTGTAGTTTA  
 1901 CTTAGGAGAT ATAAGTAGTA GAAATATGAT AAGGACTCAT GAATGGATGC  
 1951 ATCCACAGAC TAAACGATTA AAGTTTAACA TACTTCTGAC GACATATGAA  
 2001 ATTTTACTGA AGGATAAGTC ATTCCTTGGT GGTCTCAATT GGCATTTCAT  
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 2201 GCCAGAAAAA TTTTCTCCTT GGAAGATTTT TGAAGAGGAG CATGGCAAAG  
 2251 GAAGAGAGTA TGGTTATGCA AGTCTTCACA AAGAGCTTGA ACCATTTTTTA  
 2301 CTAAGAAGAG TTAATAAAGA TGTAAGAAAAG TCTTTACCTG CTAAGGTTGA  
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 2401 GGATTTTAAC AAGGAATTAT AAAGCCCTCA GTAAAGGTTT AAAAGGCAGT  
 2451 ACCTCAGGCT TTCTGAACAT TATGATGGAA CTTAAGAAGT GTTGTAACCA  
 2501 TTGCTACCTC ATTAAGCCAC CAGATGATAA TGAATTCTAT AATAAACAGG  
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 2601 AAGCTACTGA TTCGTCTGCG AGAACGTGGC AACAGAGTTC TGATTTTCTC  
 2651 TCAGATGGTG AGGATGCTGG ACATCCTAGC AGAATATCTG AAGTATCGCC  
 2701 AGTTTCCCTT CCAGAGACTT GATGGATCAA TAAAAGGGGA ATTGAGGAAG  
 2751 CAAGCACTGG ATCATTTCAA TGCAGAAAGG TCAGAGGATT TCTGTTTTTT  
 2801 ACTGTCTACA AGAGCTGGAG GATTAGGTAT TAACTTGGCA TCTGCTGACA  
 2851 CTGTAGTTAT TTTTGATTCT GACTGGAATC CACAGAATGA TCTGCAGGCA  
 2901 CAGGCGAGAG CTCATAGAAT TGGACAGAAG AAACAGGTTA ATATTTATCG  
 2951 GCTAGTCACA AAAGATCAG TAGAAGAAGA TATTCTTGAA AGAGCCAAGA

SUBSTITUTE SHEET (RULE 26)

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 3051 AAAACTGTTC TGCATACAGG TTCAACTCCA TCAAGCTCTA CACCTTTTAA  
 3101 TAAAGAAGAG TTATCAGCTA TTTTGAAGTT TGGTGTCTGAG GAACTCTTTA  
 3151 AAGAACCTGA AGGAGAAGAA CAGGAGCCCC AGGAAATGGA TATAGATGAA  
 3201 ATCTTGAAGA GAGCTGAAAC TCGGGAAAAT GAGCCAGGTG CATTGACTGT  
 3251 AGGGGATGAG TTGCTTTTAC AGTTCAAGGT GGCAGACTTT TCCAATATGG  
 3301 ATGAAGATGA TATTGAGTTG GAACCAGAAA GAAATTCAGG AAATTGGGAA  
 3351 GAAATCATCC CAGAATCCCA ACGGAGAAGG ATAGAGGAGG AGGAAAGACA  
 3401 AAAAGAACTT GAAGAAATAT ACATGCTCCC GAGGATGAGA AACTGTGCAA  
 3451 AACAGATCAG CTTTAATGGG AGTGAAGGAA GACGCAGTAG GAGCAGAAGA  
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\*\*

4351 TGAAATCTGA AAATAAAGAA AAATCTAAAA AAATTCATT GCTGGATACT  
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 4451 TGAAGAACTC CATCAGAAGA CATTTAGTGT GTGCAAAGAA AGAATGAGGC  
 4501 CTGTCAAAGC AGCACTGAAA CAGCTGGATA GACCAGAGAA GGGCCTTTCT  
 4551 GAAAGGGAGC AGCTGGAACA TACTAGGCAG TGTCTAATCA AAATTGGGGA  
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6401 ACACTTCAAA ACCCAGATCA GCCAAGATTC ATTGTAAATC CATTTGTTTT  
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6601 AAAAAACC

64020" E9E466

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Figure 6.

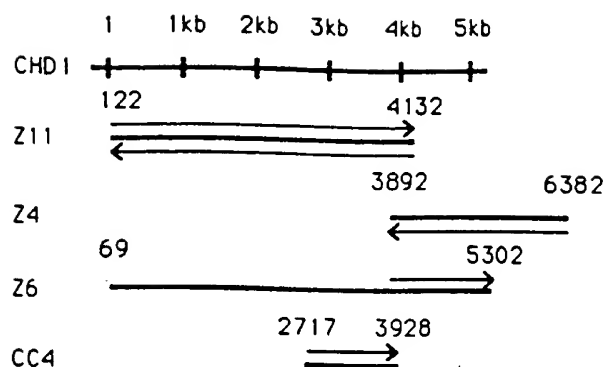


Figure 7.

		D E I V S V K H L E K K I K T E
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CHD-W	1	GATGGGATTGTTTCAGTGAACATCCACATAAAAAAATAAAAGCAGAAA
		D G I V S V K H P E K K I K A E
		K E N E E K P E P D I G I K K E A
CHD-1A	51	AAAGAAAATGAAGAAAAGCCTGAGCCAGATATTGGTATAAAGAAGGAAGCT
CHD-W	51	AAAGAAAATGAAGAAAAGATGAGCCAGAGATTGGTATAAAGAAGGAAGCT
		K E N E E K D E P E I G I K K E A
		E E K R E T K E K E N K R E L K R
CHD-1A	101	GAAGAAAAAGAGAGACAAAAGAGAAGGAAAATAAAAGGGAATTGAAAAGG
CHD-W	101	GGAGAAAAAGAGAGACAAAAGAAAAGGAAAATAAGA
		G E K R E T K E K E N K
		E K K E K E D K K E L K E K D N K
CHD-1A	151	GAGAAAAAGAAAAAGAGGATAAGAAAGAATTAAAGAAAAAGATAATAAA
		E K R E N K V K E S T Q K E K E V
CHD-1A	201	GAAGAGAGAGAAAACAAAGTAAAGAATCCACACAGAAAAGAAAAGGAAGTG
		K E E K
CHD-1A	251	AAGGAAGAGAAG

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Figure 8.

ATTTATCGGC	TAGTCACAAA	AGGATCAGTA	GAAGAAGATA	TTCTTGAAAG	AGCCAAGAAA	AAGATGGTGT	TAGATCATTT
10	20	30	40	50	60	70	80
AGTGATTCAG	AGAATGGACA	CCACAOGGAA	AACTGTACTA	CATACAGGCT	CTACTCCTTC	AAGCTCAACA	CCTTTTAATA
90	100	110	120	130	140	150	160
AGGAAGAGTT	ATCAGCAATT	TTGAAGTTTG	GTGCTGAGGA	ACTTTTAA	GAACCTGAAN	NNGAAGAAGA	GGAGCCTCAG
170	180	190	200	210	220	230	240
GAGATGGATA	TAGATGAAAT	CCTGAAGAGG	NCTGAACTC	GAGAAAATGA	GTCAGGCCCA	TTAAGTGTAG	GAGATGAGTT
250	260	270	280	290	300	310	320
ACTTTTCACAG	TTCAAGGTAG	CTAACTTTTC	CAATATGGAT	GAAGATGACA	TTGAATTGGA	ACCAGAACAA	AATCTAAGAA
330	340	350	360	370	380	390	400
ACTGGGAAGA	AATCATTCCTA	GAAGTTCAGT	GGCGACGAAT	AGAGGGGNG	GAAAGACAAA	AAGAAGTTGA	AGAAATATAT
410	420	430	440	450	460	470	480
ATGCTTCCAA	GAATGAGAAA	CTGTGCAAAA	CAGATCAGCT	TTAATGGAAA	TGAAGGGAGA	TGCAGTAGGA	GCAGAAGATA
490	500	510	520	530	540	550	560
TTCTGGATCT	GATAGTGATT	CCATCTCAGA	AAGAAAACGA	CCAAAAAAC	GTGGACGACC	ACGAAGTATT	CCCCGTGAAA
570	580	590	600	610	620	630	640
ACATTAAAGG	ATTTAGTGAT	GCAGAGATTA	GACGATTTAT	CAAGAGTTAC	AAGAAATTTG	GTGGCCCACT	TGAAAGGTTA
650	660	670	680	690	700	710	720
GATGCTATAG	CTAGAGATGC	TGAGCTAGTT	GATAAATCTG	AAACAGACCT	TAGACGTCTG	GGAGAAGTTG	TACATAATGG
730	740	750	760	770	780	790	800
ATGCATTAAG	GCTTTAAATG	ATAATGACTT	TGGTCAAGGA	AGAACAGGTG	GTAGATTTGG	GAAAGTTAAA	GGCCCAACAT
810	820	830	840	850	860	870	880
TCCGAATAGC	AGGAGTGCAG	GTGAATGCAA	AGCTAGTCAT	TTCTCAGCAA	GAAGAGTTGG	CACCATTGCA	TAAATCGATT
890	900	910	920	930	940	950	960
CCTTCAGATC	CAGAAGAAAG	GAAGAGATAT	GTCAATCCAT	ACCACACCAA	AGCAGCTCAT	TTTGATATAG	ATTGGGGTAA
970	980	990	1000	1010	1020	1030	1040
AGAAGATGAT	TCCAATCTGT	TAATAGGCAT	CTATGAATAT	GGTTATGGCA	GTGGGAAAT	GATAAAATG	GATCCTGATC
1050	1060	1070	1080	1090	1100	1110	1120
TCAGTTTGAC	ACAGAAGATT	TTACCTGATG	ATCCAGATAA	GAAACCCAG	GCTAAGCAGT	TACAGACTCG	TGCAGATTAC
1130	1140	1150	1160	1170	1180	1190	1200
CTCATTAAT	TACTGAATAA	AGACCTTGCA	AGAAAGGAAG	CACAGAGACT	TGCTGGTGCA	GGCAATTCAA	AGAGGAGAAA
1210	1220	1230	1240	1250	1260	1270	1280
AACAAGAAGT	AAGAAGAATA	AAGCAACAAA	GGCTGC				
1290	1300	1310					

664020" 63224680



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Figure 9.

Sheet 2 of 2

C CHD-1A	DARRYLGNLGH*RIASQTHYFENIRSTRKGILDLELVT*VDFLNFILITMNGHSDEE
M CHD-1	FALCPVVTQREPQETRECRKFIFEILIFEICIEHLLIGDFCFINFLIPTMNGHSDEE
	*****
C CHD-1A	SVRNSSGESSRSDDDSGASASGSGSGSSSGSSSDGSSSQSGSSDSESGSESGSQSESESD
M CHD-1	SVRNSSGESSQSGDD-CGSASGSGSGSSSGSSSDGSSSQSGSSDSDSGSDSGSQSESESD
	*****
C CHD-1A	TSREKKQVQAKPPKADGSEFWKSSPSILAVQSAVLKQOQQO---QKAASSDSGSEEDSS
M CHD-1	TSRENK-VQAKPPKVDGAEPWKSSPSILAVQSAVLKQOQQOQPPASSNSGSEEDSS
	*****
C CHD-1A	SSSDSADDSSSETKKKKHDEWQMSGSGSVSGTGSDESSEADGKSSCZSESESDYEPKN
M CHD-1	SSSDS-DDSSSGAKKKHDEWQMSGSGSPSGLGSDSESEERKSSCDGTESDYEPKN
	*****
C CHD-1A	KVRSRPPSRIPKPSGKKSTGQKQRLDSSEEEEDDEDYDKRGSRRQATVNVSYKEAEZ
M CHD-1	KVRSRPPSRIPKPSGKKSTGQKQRLDSSEEEEDDEDYDKRGSRRQATVNVSYKEAEZ
	*****
C CHD-1A	TKTDSDDLLEVCGEVDPQTEDEFETIEKFMDSRIGRKATGASTTIYAVEADGDPNAGF
M CHD-1	TKTDSDDLLEVCGEVDPQTEDEFETIERVMDCRVGRKATGASTTIYAVEADGDPNAGF
	*****
C CHD-1A	KTKEHGEIQYLKWKWSHIEHTWEETETLKQONVRGMKLDNYKKQDQETRWLNAS
M CHD-1	KTKEHGEIQYLKWKWSHIEHTWEETETLKQONVRGMKLDNYKKQDQETRWLNAS
	*****
HUMAN	PEDVEYINCQQLTDDLEKQYQIVERITNXSPQSKSAAGYP
C CHD-1A	PEDVEYINCQQLTDDLEKQYQIVERITNXSPQSKSAAGYPDYCKWQGLPYSECSWEDGA
M CHD-1	PEDVEYINCQQLTDDLEKQYQIVERITNXSPQSKSAAGLPDYCKWQGLPYSECSWEDGA
	*****
C CHD-1A	LIAXKQARIDEYFSRNQSKTTPFKDKVLRQRPFRVALKQPSYIGGHEGLELRDYQLN
M CHD-1	LIAXKQARIDEYFSRNQSKTTPFKDKVLRQRPFRVALKQPSYIGGHEGLELRDYQLN
	*****
C CHD-1A	GLNWLAESWCKGNSCILADEMGLGKTIQTISFLNYLFHEBQLYGPFLLRVPLSTLTSWQR
M CHD-1	GLNWLAESWCKGNSCILADEMGLGKTIQTISFLNYLFHEBQLYGPFLLRVPLSTLTSWQR
	*****
C CHD-1A	EIQTWAPQMNNAVYLGDIISRNMIRTHEWMPQTKRLKFNILLTYEILLKDKSFLGGLN
M CHD-1	EIQTWASQMNNAVYLGDIISRNMIRTHEWMPQTKRLKFNILLTYEILLKDKSFLGGLN
	*****
C CHD-1A	WAFIGVDEAERLKNDDSLYRTLIDFKSNRLLITGTPLQNSLKEWLSLHFIPEKPFSS
M CHD-1	WAFIGVDEAERLKNDDSLYRTLIDFKSNRLLITGTPLQNSLKEWLSLHFIPEKPFSS
	*****
C CHD-1A	WEDFEEHBGKREYGYASLHKELEPFLRRVKDVEKSLPAKVEQILRHEMSALQKQYYK
M CHD-1	WEDFEEHBGKREYGYASLHKELEPFLRRVKDVEKSLPAKVEQILRHEMSALQKQYYK
	*****
C CHD-1A	WILTRNYKALSCKSGSGTSGFLNIMMELKCCNHCYLIKPPDDNEFYNKQALQHLIRSS
M CHD-1	WILTRNYKALSCKSGSGTSGFLNIMMELKCCNHCYLIKPPDDNEFYNKQALQHLIRSS
	*****
C CHD-1A	GKLIILLDKLLIRLRERGNRVLIQSVMRMLDILAEYLKYRQFPFQRLDGSIKGEIRKQAL
M CHD-1	GKLIILLDKLLIRLRERGNRVLIQSVMRMLDILAEYLKYRQFPFQRLDGSIKGEIRKQAL
	*****

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C CHD-1A  
M CHD-1

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DBFNAEGSEDFCFLSTRAGGLGINLASADTVVIFDSWNPQNDLQAQARAERIGQKKQV  
\*\*\*\*\*

C CHD-W  
C CHD-1A  
M CHD-1

-IYRLVTKGSVEEDILERAQKKMVLDBLVIQRMDDTTGKTVLBTGSTPSSSTPFNKEZLSA  
NIYRLVTKGSVEEDILERAQKKMVLDBLVIQRMDDTTGKTVLBTGSTPSSSTPFNKEZLSA  
NIYRLVTKGSVEEDILERAQKKMVLDBLVIQRMDDTTGKTVLBTGSTPSSSTPFNKEZLSA  
\*\*\*\*\*

C CHD-W  
C CHD-1A  
M CHD-1

ILKFGAEELFKPEPEXEEEPQEMDIDEILKRAETRENEGPGPLTVGDELLSQFKVANFSNM  
ILKFGAEELFKPEPEXEEEPQEMDIDEILKRAETRENEGPGPLTVGDELLSQFKVANFSNM  
ILKFGAEELFKPEPEXEEEPQEMDIDEILKRAETRENEGPGPLTVGDELLSQFKVANFSNM  
\*\*\*\*\*

C CHD-W  
C CHD-1A  
M CHD-1

DEDDIELEPEQNLNRWEEIIPFQWRRIEGXERQKELEEIYMLPRMNCARDISFNGNEZ  
DEDDIELEPERNSKNWEEIIPFQWRRIEGXERQKELEEIYMLPRMNCARDISFNGNEZ  
DEDDIELEPERNSKNWEEIIPFQWRRIEGXERQKELEEIYMLPRMNCARDISFNGNEZ  
\*\*\*\*\*

C CHD-W  
C CHD-1A  
M CHD-1

RCSRRRYSGSDSDSISERKRPKKRGRPTIPRENIGFSDAEIRRFIKSYKFGGPVER  
RCSRRRYSGSDSDSISERKRPKKRGRPTIPRENIGFSDAEIRRFIKSYKFGGPVER  
RCSRRRYSGSDSDSISERKRPKKRGRPTIPRENIGFSDAEIRRFIKSYKFGGPVER  
\*\*\*\*\*

C CHD-W  
C CHD-1A  
M CHD-1

LDAIARDAELVDKSETDLRLRGLZLVHNGCIKALNDNDFGQGRTGGRFGVKGPTRLAGV  
LDAIARDAELVDKSETDLRLRGLZLVHNGCIKALNDNDFGQGRTGGRFGVKGPTRLAGV  
LDAIARDAELVDKSETDLRLRGLZLVHNGCIKALNDNDFGQGRTGGRFGVKGPTRLAGV  
\*\*\*\*\*

C CHD-W  
C CHD-1A  
M CHD-1

QVNAKLVISHEEELAPLEKSIPSDPEERKRYVIPYHTKAAHFDIDWKEZDSDNLLIGIYE  
QVNAKLVIABEDELIPLEKSIPSDPEERKRYVIPYHTKAAHFDIDWKEZDSDNLLIGIYE  
QVNAKLVISHEEELAPLEKSIPSDPEERKRYVIPYHTKAAHFDIDWKEZDSDNLLIGIYE  
\*\*\*\*\*

C CHD-W  
C CHD-1A  
M CHD-1

YGYGSWEHIKMDPDLSTQKILPDOPDKKQAKQLOTRADYLIKLNKDLARKEAQRLAG  
YGYGSWEHIKMDPDLSTQKILPDOPDKKQAKQLOTRADYLIKLNKDLARKEAQRLAG  
YGYGSWEHIKMDPDLSTQKILPDOPDKKQAKQLOTRADYLIKLNKDLARKEAQRLAG  
\*\*\*\*\*

C CHD-W  
C CHD-1A  
M CHD-1

AGNSKRRKTRSKKATKAA  
AGNSKRRKTRSKKATKAAIKVKEIKSDSSPLPSEKSDDEDD---KLNDKPEKSDRS  
AGNSKRRKTRSKKATKAAIKVKEIKSDSSPLPSEKSDDEDD---KLNDKPEKSDRS  
\*\*\*\*\*

C CHD-1A  
M CHD-1

KKSVVSDAPVHITASGEVPVIAEZEELDQKTFISICKERMFPVKAALKQDRPEKGLSER  
KKIPLLOTVPVHITATSEKVPVIAEZEELDQKTFISICKERMFPVKAALKQDRPEKGLSER  
\*\*\*\*\*

C CHD-1A  
M CHD-1

EQLEHTROCLIKIGDHITECLKEYSNPEQIKQWRKNLWIFVSKFTEFDARKLEKLYKHA  
EQLEHTROCLIKIGDHITECLKEYSNPEQIKQWRKNLWIFVSKFTEFDARKLEKLYKHA  
\*\*\*\*\*

C CHD-1A  
M CHD-1

KKRQESQONSQON-SNVATTHVIRNPDHERLKENTNHDSSRDSYSSDRHLSQYHDHFKD  
KKRQESQONSQON-SNVATTHVIRNPDHERLKENTNHDSSRDSYSSDRHLSQYHDHFKD  
\*\*\*\*\*

C CHD-1A  
M CHD-1

REQCDSYKKSDSRKPYPSSFSNGKDBREWDEYRQDSRYYSOREKRLDDHRSREHRPSL  
REQCDSYKKSDSRKPYPSSFSNGKDBREWDEYRQDSRYYSOREKRLDDHRSREHRPSL  
\*\*\*\*\*

C CHD-1A  
M CHD-1

EGGLKD-RCSDHRSBHDHRSBHDHRSSTPSTHIIINPPRDYRYSWQDLDERAASSGPRSP  
EGNLKDSRGSBHDHRSBHDHRSSTPSTHIIINPPRDYRYSWQDLDERAASSGPRSP  
\*\*\*\*\*

C CHD-1A  
M CHD-1

LDQRSPYGRSP-----FEHSAEHRSTPEHTWSSRKTQXKLMSLSSGTLFPX  
LDQRSPYGRSP-----FEHSAEHRSTPEHTWSSRKTQXKLMSLSSGTLFPX  
\*\*\*\*\*

C CHD-1A  
C CHD-1A  
C CHD-1A  
C CHD-1A  
C CHD-1A  
C CHD-1A  
C CHD-1A

LTXLERYGLDILSVAVLLLLSRMQLLSQKKNI FVFKVYAAALCCCKCGTTF LRNRCILL  
LQGPQBCPPFTGSSYYKTLFVKVVLGXTQIKLCLXMTXTLTCAVYSGONGGFI LFFFLVE  
NSQGLCSLSKATCLECTLRPPCRFSSQAXIFPKCTYSCKIARISPVCDQLXCLFMRQTNK  
QKTIKQNTTKPTNCKLLXINXMSFPFSGFWLFLSPTTQAFPSQSQYTYMFXNISMZ  
SECKNGELNILFHLVLLFYWILLBTCFWLFFYIFFTYKTVSVVIVVWNSENIPLXTVPWK  
APQVHWFKRRCISIGZHFPTQISQDSLXIELFSLFMGNVVKCAHQQLIFXKIMTLLTE  
LQCTTLIVERXLLSDKLNKLPKKT

SUBSTITUTE SHEET (RULE 26)

644220" 9362650

[illegible]

**SUBSTITUTE SHEET (RULE 26)**

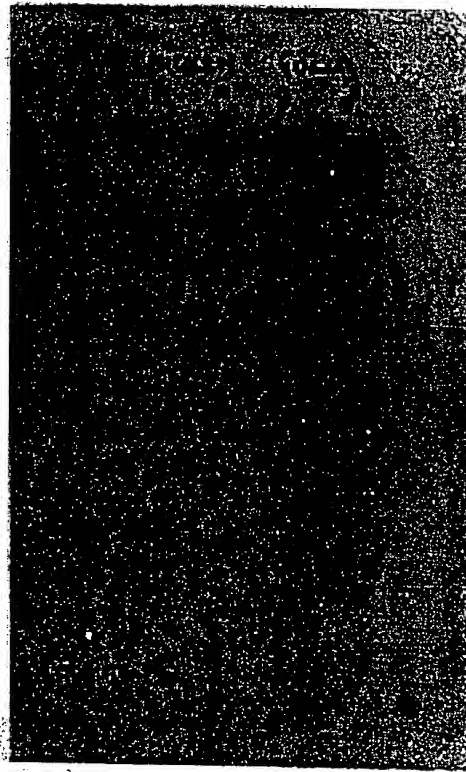
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1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

**SUBSTITUTE SHEET (RULE 26)**

[illegible]

CCHD	AVEAD	GDPNAGFEKSKELGE	.IQYLIKWKWSHIBNTWETEET	LKQQNVKGMNKLDNYKK
MCHD	AVEAD	GDPNAGFERNKEPGD	.IQYLIKWKWSHIBNTWETEET	LKQQNVGRGNKKLDNYKK
YCHD	EGKVL	EKTPVPLNNCKE	.N.YEFLIKWTDESHIBNTWETYES	IGQ.VRGLKRLDNYCK
		***	****	*****
DHP1	EEEE	YAVEKIIDRRVRKGK	.VEYLLKWKGPETENTWEPENN	LDCQDLIQOY
BHP1	EDEEE	YVVEKVLDRRVVKGQVE	YLLKWKGFSEEBNTWPEKN	LDCPELISEF
MMOD1	EEEE	YVVEKVLDRRVVKGK	.VEYLLKWKGFSDENTWPEEN	LDCPDLIAEF
MMOD2	AEPEE	FVVEKVLDRRVVNGK	.VEYFLKWKGFTDADNTWPEEN	LDCPELIEDF
	**	***	*****	*****
DPC	PVDLV	YAAEKIIQKRVKKG	.VEYRVKWKGNQRYNTWEPENN	ILDRRLIDIY
MMOD3	VGEQV	FAAECILSKRLRKKG	.LEYLVKWRGWSSKHSNWEPEEN	ILDPRLLLAF
	*	*****	*****	*****

Figure 12.



Station	Time	Lat.	Long.	Alt.	Temp.	Wind	Clouds	Remarks
1	0800	34° 15' N	122° 00' W	10	58	10	100	Clear
2	0900	34° 30' N	121° 45' W	10	59	10	100	Clear
3	1000	34° 45' N	121° 30' W	10	60	10	100	Clear
4	1100	35° 00' N	121° 15' W	10	61	10	100	Clear
5	1200	35° 15' N	121° 00' W	10	62	10	100	Clear
6	1300	35° 30' N	120° 45' W	10	63	10	100	Clear
7	1400	35° 45' N	120° 30' W	10	64	10	100	Clear
8	1500	36° 00' N	120° 15' W	10	65	10	100	Clear
9	1600	36° 15' N	120° 00' W	10	66	10	100	Clear
10	1700	36° 30' N	119° 45' W	10	67	10	100	Clear
11	1800	36° 45' N	119° 30' W	10	68	10	100	Clear
12	1900	37° 00' N	119° 15' W	10	69	10	100	Clear
13	2000	37° 15' N	119° 00' W	10	70	10	100	Clear
14	2100	37° 30' N	118° 45' W	10	71	10	100	Clear
15	2200	37° 45' N	118° 30' W	10	72	10	100	Clear
16	2300	38° 00' N	118° 15' W	10	73	10	100	Clear
17	0000	38° 15' N	118° 00' W	10	74	10	100	Clear
18	0100	38° 30' N	117° 45' W	10	75	10	100	Clear
19	0200	38° 45' N	117° 30' W	10	76	10	100	Clear
20	0300	39° 00' N	117° 15' W	10	77	10	100	Clear
21	0400	39° 15' N	117° 00' W	10	78	10	100	Clear
22	0500	39° 30' N	116° 45' W	10	79	10	100	Clear
23	0600	39° 45' N	116° 30' W	10	80	10	100	Clear
24	0700	40° 00' N	116° 15' W	10	81	10	100	Clear

Figure 13.

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	



Figure 14.

MOUSE CHD1  
 CHICKEN CHD-1A  
 SPIX CHD-1A  
 CHICKEN CHD-W  
 SPIX CHD-W  
 HYACINTH CHD-W  
 P1  
 P3

AGA TAT TCT GGA TCT GAT AGT GAT TCA ATC TCG GAA  
 --- --- --- --- --- --- --- --- C ---C --- A-A ---  
 --- --- --- --- --- --- --- --- C ---C --- ---A ---  
 --- --- --- --- --- --- --- --- C ---C --- ---A ---  
 --- --- --- --- --- --- --- --- C ---C --- ---A ---  
 A TAT TCT GGA TCT GAT AGT GAY TC  
 AGA TAT TCC GGA TCT GAT AGT GA

MOUSE CHD1  
 CHICKEN CHD-1A  
 SPIX CHD-1A  
 CHICKEN CHD-W  
 SPIX CHD-W  
 HYACINTH CHD-W

AGG AAA CGG CCG AAG AAA CGT GGG CGA CCC CGC ACT  
 --A --- ---A --A --G --- --A A-- --T --A --C  
 --- --- ---A --A --G --- --A A-- --A --A ---  
 --A --- --A --A --A --- --A --- --A --A ---  
 --A --- --A --A --GA --- --A --- --A --A ---  
 --A --- --A --A --GA --- --A --- --A --A ---

MOUSE CHD1  
 CHICKEN CHD-1A  
 SPIX CHD-1A  
 CHICKEN CHD-W  
 SPIX CHD-W  
 P2  
 HYACINTH CHD-W  
 HYACINTH CHD-W

ATC CCT CGG GAG AAT ATT AAA GGA TTT AGT GAT GCG GAG  
 --T --- --A --A --- --- --- --- --- ---A ---  
 --T --- --A --A --- --A --- --- --- --- ---A ---  
 --T --C --T --A --C --- --- --- --- ---A ---  
 --T --- --T --A --- --- --- --- --- --- ---  
 --- --- --- --- --- TTT CCT AAA TCG CTA CGT CT  
 ATT AGG CGG T --- --- --- ---C --- --A --G



Figure 15.

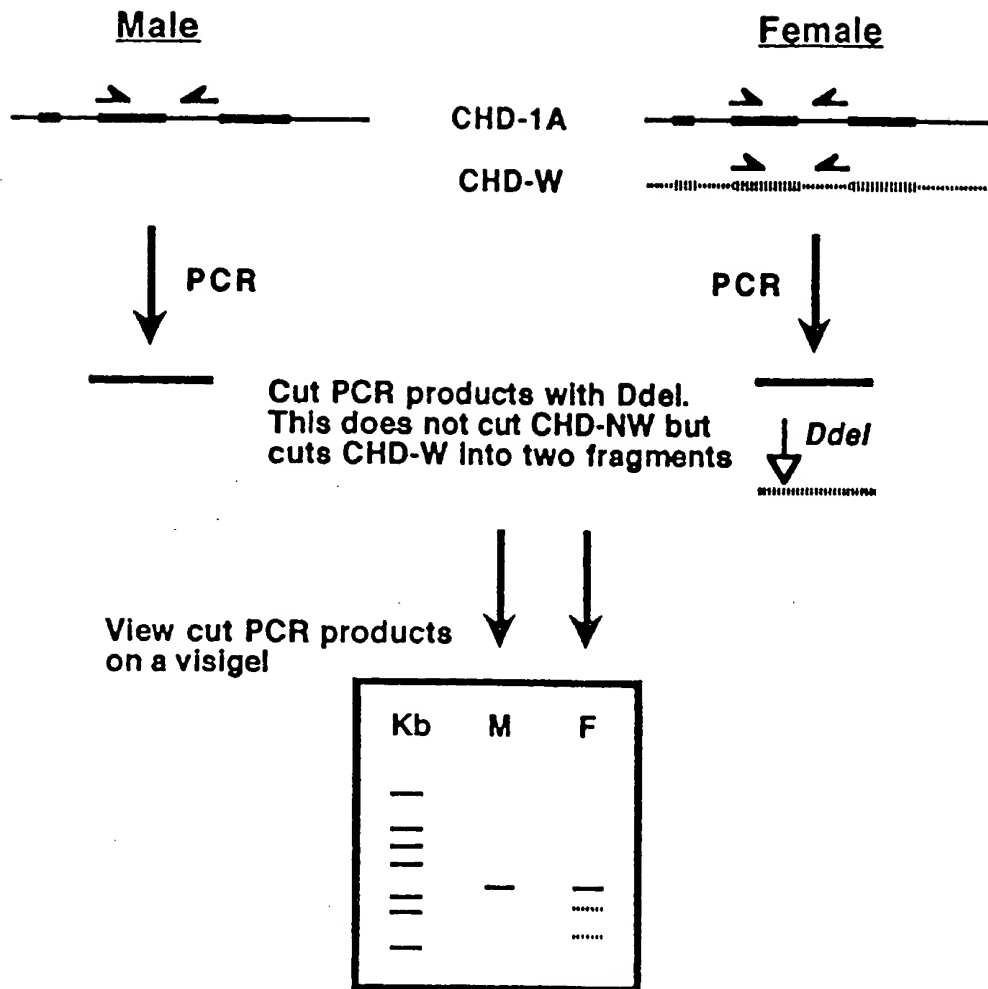


Figure 16.

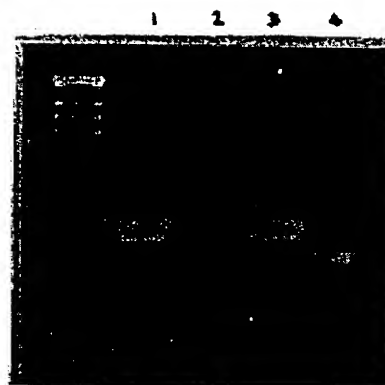


Figure 17.

